

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the invention entitled:

ACOUSTIC FLOW PULSING APPARATUS AND METHOD FOR DRILL STRING

which is described and claimed in:

the attached specification;

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge my duty to disclose information which is material to the patentability of this invention in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application on which priority is claimed:

Prior Foreign/PCT Application(s)			Priority Claimed?	
Serial No.	Country	Filing Date	Yes	No
2354994	Canada	13 August 2001	X	
2331021	Canada	9 January 2001	X	

I hereby claim the benefit, under 35 U.S.C. §120, of any United States application(s) or any PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

U.S. Patent Applications		Status (Check One)		
Serial No.	Filing Date	Patented	Pending	Abandoned

PCT Applications Designating US			Status (Check One)		
PCT No.	Filed	U.S.S.N.	Patented	Pending	Abandoned
PCT/CA02/00020	9 Jan 02			X	

I hereby appoint the following attorney(s) and/or agent(s), with full powers of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Name	Regn. No.	Name	Regn. No.
Gerald O.S. Oyen	27,280	Gavin N. Manning	36,412
Blake R. Wiggs	29,505	George F. Kondor	40,477
Bruce M. Green	30,524	Craig A. Ash	48,228
David J. McGruder	32,375	Hilton W.C. Sue	51,325
Thomas W. Bailey	36,411		

Please direct all telephone calls to Oyen Wiggs Green & Mutala at Tel. No. 604-669-3432. Please direct all faxes to Oyen Wiggs Green & Mutala at Fax No. 604-681-4081. Please address all correspondence to:

Oyen Wiggs Green & Mutala
 Suite 480—The Station
 601 West Cordova Street
 Vancouver, British Columbia
 Canada V6B 1G1

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole
or first Inventor:

WALTER, Bruno

Inventor's signature:

Bruno Walter
July 6, 2003

Date:

Residence Address:

753 Vinedale Road
North Vancouver, British Columbia
Canada V7K 1A1

Citizenship: Canadian

Mailing Address: same as above